EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Mamba 30 State
#704H

OH

Plan: Plan #0.2

Standard Planning Report

19 July, 2018

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #704H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3563.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3563.0usft
Site:	Mamba 30 State	**North Reference:**	Grid
Well:	#704H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Mamba 30 State				
Site Position:		**Northing:**	430,807.00 usft	**Latitude:**	32° 10' 56.143 N
From:	Map	**Easting:**	767,053.00 usft	**Longitude:**	103° 36' 13.509 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.39 °

Well	#704H					
Well Position	**+N/-S**	41.0 usft	**Northing:**	430,848.00 usft	**Latitude:**	32° 10' 56.631 N
	+E/-W	-1,231.0 usft	**Easting:**	765,822.00 usft	**Longitude:**	103° 36' 27.829 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,538.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	7/5/2018	6.85	60.01	47,800.92799721

Design	Plan #0.2				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	350.14	

Plan Survey Tool Program **Date** 7/19/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,397.5	Plan #0.2 (OH)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,532.0	5.32	247.09	3,531.3	-9.6	-22.7	1.00	1.00	0.00	247.09	
11,980.7	5.32	247.09	11,943.5	-314.5	-744.4	0.00	0.00	0.00	0.00	
12,747.5	90.00	359.45	12,436.0	162.2	-791.4	12.00	11.04	14.65	112.27	
17,397.5	90.00	359.45	12,436.0	4,812.0	-836.0	0.00	0.00	0.00	0.00	PBHL (Mamba 30 Sta

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Site:	Mamba 30 State	**North Reference:**	Grid
Well:	#704H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	1.00	247.09	3,100.0	-0.3	-0.8	-0.2	1.00	1.00	0.00
3,200.0	2.00	247.09	3,200.0	-1.4	-3.2	-0.8	1.00	1.00	0.00
3,300.0	3.00	247.09	3,299.9	-3.1	-7.2	-1.8	1.00	1.00	0.00
3,400.0	4.00	247.09	3,399.7	-5.4	-12.9	-3.2	1.00	1.00	0.00
3,500.0	5.00	247.09	3,499.4	-8.5	-20.1	-4.9	1.00	1.00	0.00
3,532.0	5.32	247.09	3,531.3	-9.6	-22.7	-5.6	1.00	1.00	0.00
3,600.0	5.32	247.09	3,598.9	-12.1	-28.5	-7.0	0.00	0.00	0.00
3,700.0	5.32	247.09	3,698.5	-15.7	-37.1	-9.1	0.00	0.00	0.00
3,800.0	5.32	247.09	3,798.1	-19.3	-45.6	-11.2	0.00	0.00	0.00
3,900.0	5.32	247.09	3,897.7	-22.9	-54.2	-13.3	0.00	0.00	0.00
4,000.0	5.32	247.09	3,997.2	-26.5	-62.7	-15.4	0.00	0.00	0.00
4,100.0	5.32	247.09	4,096.8	-30.1	-71.2	-17.5	0.00	0.00	0.00
4,200.0	5.32	247.09	4,196.4	-33.7	-79.8	-19.6	0.00	0.00	0.00
4,300.0	5.32	247.09	4,295.9	-37.3	-88.3	-21.7	0.00	0.00	0.00
4,400.0	5.32	247.09	4,395.5	-40.9	-96.9	-23.7	0.00	0.00	0.00
4,500.0	5.32	247.09	4,495.1	-44.5	-105.4	-25.8	0.00	0.00	0.00
4,600.0	5.32	247.09	4,594.6	-48.2	-114.0	-27.9	0.00	0.00	0.00
4,700.0	5.32	247.09	4,694.2	-51.8	-122.5	-30.0	0.00	0.00	0.00
4,800.0	5.32	247.09	4,793.8	-55.4	-131.0	-32.1	0.00	0.00	0.00
4,900.0	5.32	247.09	4,893.3	-59.0	-139.6	-34.2	0.00	0.00	0.00
5,000.0	5.32	247.09	4,992.9	-62.6	-148.1	-36.3	0.00	0.00	0.00
5,100.0	5.32	247.09	5,092.5	-66.2	-156.7	-38.4	0.00	0.00	0.00
5,200.0	5.32	247.09	5,192.0	-69.8	-165.2	-40.5	0.00	0.00	0.00

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Well:	#704H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	5.32	247.09	5,291.6	-73.4	-173.7	-42.6	0.00	0.00	0.00
5,400.0	5.32	247.09	5,391.2	-77.0	-182.3	-44.7	0.00	0.00	0.00
5,500.0	5.32	247.09	5,490.8	-80.6	-190.8	-46.8	0.00	0.00	0.00
5,600.0	5.32	247.09	5,590.3	-84.2	-199.4	-48.9	0.00	0.00	0.00
5,700.0	5.32	247.09	5,689.9	-87.9	-207.9	-51.0	0.00	0.00	0.00
5,800.0	5.32	247.09	5,789.5	-91.5	-216.5	-53.1	0.00	0.00	0.00
5,900.0	5.32	247.09	5,889.0	-95.1	-225.0	-55.2	0.00	0.00	0.00
6,000.0	5.32	247.09	5,988.6	-98.7	-233.5	-57.2	0.00	0.00	0.00
6,100.0	5.32	247.09	6,088.2	-102.3	-242.1	-59.3	0.00	0.00	0.00
6,200.0	5.32	247.09	6,187.7	-105.9	-250.6	-61.4	0.00	0.00	0.00
6,300.0	5.32	247.09	6,287.3	-109.5	-259.2	-63.5	0.00	0.00	0.00
6,400.0	5.32	247.09	6,386.9	-113.1	-267.7	-65.6	0.00	0.00	0.00
6,500.0	5.32	247.09	6,486.4	-116.7	-276.2	-67.7	0.00	0.00	0.00
6,600.0	5.32	247.09	6,586.0	-120.3	-284.8	-69.8	0.00	0.00	0.00
6,700.0	5.32	247.09	6,685.6	-123.9	-293.3	-71.9	0.00	0.00	0.00
6,800.0	5.32	247.09	6,785.2	-127.6	-301.9	-74.0	0.00	0.00	0.00
6,900.0	5.32	247.09	6,884.7	-131.2	-310.4	-76.1	0.00	0.00	0.00
7,000.0	5.32	247.09	6,984.3	-134.8	-318.9	-78.2	0.00	0.00	0.00
7,100.0	5.32	247.09	7,083.9	-138.4	-327.5	-80.3	0.00	0.00	0.00
7,200.0	5.32	247.09	7,183.4	-142.0	-336.0	-82.4	0.00	0.00	0.00
7,300.0	5.32	247.09	7,283.0	-145.6	-344.6	-84.5	0.00	0.00	0.00
7,400.0	5.32	247.09	7,382.6	-149.2	-353.1	-86.6	0.00	0.00	0.00
7,500.0	5.32	247.09	7,482.1	-152.8	-361.7	-88.7	0.00	0.00	0.00
7,600.0	5.32	247.09	7,581.7	-156.4	-370.2	-90.7	0.00	0.00	0.00
7,700.0	5.32	247.09	7,681.3	-160.0	-378.7	-92.8	0.00	0.00	0.00
7,800.0	5.32	247.09	7,780.8	-163.6	-387.3	-94.9	0.00	0.00	0.00
7,900.0	5.32	247.09	7,880.4	-167.3	-395.8	-97.0	0.00	0.00	0.00
8,000.0	5.32	247.09	7,980.0	-170.9	-404.4	-99.1	0.00	0.00	0.00
8,100.0	5.32	247.09	8,079.6	-174.5	-412.9	-101.2	0.00	0.00	0.00
8,200.0	5.32	247.09	8,179.1	-178.1	-421.4	-103.3	0.00	0.00	0.00
8,300.0	5.32	247.09	8,278.7	-181.7	-430.0	-105.4	0.00	0.00	0.00
8,400.0	5.32	247.09	8,378.3	-185.3	-438.5	-107.5	0.00	0.00	0.00
8,500.0	5.32	247.09	8,477.8	-188.9	-447.1	-109.6	0.00	0.00	0.00
8,600.0	5.32	247.09	8,577.4	-192.5	-455.6	-111.7	0.00	0.00	0.00
8,700.0	5.32	247.09	8,677.0	-196.1	-464.2	-113.8	0.00	0.00	0.00
8,800.0	5.32	247.09	8,776.5	-199.7	-472.7	-115.9	0.00	0.00	0.00
8,900.0	5.32	247.09	8,876.1	-203.3	-481.2	-118.0	0.00	0.00	0.00
9,000.0	5.32	247.09	8,975.7	-206.9	-489.8	-120.1	0.00	0.00	0.00
9,100.0	5.32	247.09	9,075.2	-210.6	-498.3	-122.2	0.00	0.00	0.00
9,200.0	5.32	247.09	9,174.8	-214.2	-506.9	-124.2	0.00	0.00	0.00
9,300.0	5.32	247.09	9,274.4	-217.8	-515.4	-126.3	0.00	0.00	0.00
9,400.0	5.32	247.09	9,374.0	-221.4	-523.9	-128.4	0.00	0.00	0.00
9,500.0	5.32	247.09	9,473.5	-225.0	-532.5	-130.5	0.00	0.00	0.00
9,600.0	5.32	247.09	9,573.1	-228.6	-541.0	-132.6	0.00	0.00	0.00
9,700.0	5.32	247.09	9,672.7	-232.2	-549.6	-134.7	0.00	0.00	0.00
9,800.0	5.32	247.09	9,772.2	-235.8	-558.1	-136.8	0.00	0.00	0.00
9,900.0	5.32	247.09	9,871.8	-239.4	-566.7	-138.9	0.00	0.00	0.00
10,000.0	5.32	247.09	9,971.4	-243.0	-575.2	-141.0	0.00	0.00	0.00
10,100.0	5.32	247.09	10,070.9	-246.6	-583.7	-143.1	0.00	0.00	0.00
10,200.0	5.32	247.09	10,170.5	-250.3	-592.3	-145.2	0.00	0.00	0.00
10,300.0	5.32	247.09	10,270.1	-253.9	-600.8	-147.3	0.00	0.00	0.00
10,400.0	5.32	247.09	10,369.6	-257.5	-609.4	-149.4	0.00	0.00	0.00
10,500.0	5.32	247.09	10,469.2	-261.1	-617.9	-151.5	0.00	0.00	0.00
10,600.0	5.32	247.09	10,568.8	-264.7	-626.4	-153.6	0.00	0.00	0.00

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Wellbore:	OH		
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	5.32	247.09	10,668.4	-268.3	-635.0	-155.7	0.00	0.00	0.00
10,800.0	5.32	247.09	10,767.9	-271.9	-643.5	-157.7	0.00	0.00	0.00
10,900.0	5.32	247.09	10,867.5	-275.5	-652.1	-159.8	0.00	0.00	0.00
11,000.0	5.32	247.09	10,967.1	-279.1	-660.6	-161.9	0.00	0.00	0.00
11,100.0	5.32	247.09	11,066.6	-282.7	-669.1	-164.0	0.00	0.00	0.00
11,200.0	5.32	247.09	11,166.2	-286.3	-677.7	-166.1	0.00	0.00	0.00
11,300.0	5.32	247.09	11,265.8	-290.0	-686.2	-168.2	0.00	0.00	0.00
11,400.0	5.32	247.09	11,365.3	-293.6	-694.8	-170.3	0.00	0.00	0.00
11,500.0	5.32	247.09	11,464.9	-297.2	-703.3	-172.4	0.00	0.00	0.00
11,600.0	5.32	247.09	11,564.5	-300.8	-711.9	-174.5	0.00	0.00	0.00
11,700.0	5.32	247.09	11,664.0	-304.4	-720.4	-176.6	0.00	0.00	0.00
11,800.0	5.32	247.09	11,763.6	-308.0	-728.9	-178.7	0.00	0.00	0.00
11,900.0	5.32	247.09	11,863.2	-311.6	-737.5	-180.8	0.00	0.00	0.00
11,980.7	5.32	247.09	11,943.5	-314.5	-744.4	-182.5	0.00	0.00	0.00
12,000.0	4.93	272.91	11,962.8	-314.8	-746.0	-182.5	12.00	-2.01	133.62
12,025.0	5.92	303.32	11,987.7	-314.1	-748.2	-181.4	12.00	3.96	121.67
12,050.0	7.99	321.58	12,012.5	-312.0	-750.3	-179.0	12.00	8.26	73.02
12,075.0	10.51	331.79	12,037.1	-308.6	-752.5	-175.3	12.00	10.09	40.83
12,100.0	13.23	337.96	12,061.6	-304.0	-754.6	-170.3	12.00	10.89	24.70
12,125.0	16.05	342.03	12,085.8	-298.0	-756.8	-164.1	12.00	11.28	16.28
12,150.0	18.93	344.90	12,109.6	-290.8	-758.9	-156.6	12.00	11.50	11.48
12,175.0	21.83	347.04	12,133.1	-282.4	-761.0	-147.9	12.00	11.63	8.53
12,200.0	24.76	348.69	12,156.0	-272.7	-763.1	-138.1	12.00	11.71	6.61
12,225.0	27.70	350.01	12,178.5	-261.8	-765.1	-127.0	12.00	11.77	5.29
12,250.0	30.66	351.10	12,200.3	-249.8	-767.1	-114.8	12.00	11.81	4.34
12,275.0	33.62	352.01	12,221.4	-236.7	-769.1	-101.5	12.00	11.84	3.65
12,300.0	36.58	352.79	12,241.9	-222.4	-771.0	-87.2	12.00	11.87	3.12
12,325.0	39.55	353.46	12,261.6	-207.1	-772.8	-71.8	12.00	11.88	2.71
12,350.0	42.53	354.06	12,280.4	-190.8	-774.6	-55.4	12.00	11.90	2.39
12,375.0	45.51	354.60	12,298.4	-173.5	-776.3	-38.1	12.00	11.91	2.13
12,400.0	48.48	355.08	12,315.5	-155.3	-777.9	-19.9	12.00	11.92	1.93
FTP (Mamba 30 State #704H)									
12,425.0	51.47	355.52	12,331.5	-136.2	-779.5	-0.8	12.00	11.92	1.76
12,450.0	54.45	355.92	12,346.6	-116.3	-781.0	19.1	12.00	11.93	1.62
12,475.0	57.43	356.30	12,360.6	-95.7	-782.4	39.7	12.00	11.94	1.50
12,500.0	60.42	356.65	12,373.5	-74.3	-783.7	60.9	12.00	11.94	1.40
12,525.0	63.40	356.98	12,385.3	-52.3	-784.9	82.8	12.00	11.94	1.32
12,550.0	66.39	357.29	12,395.9	-29.7	-786.1	105.3	12.00	11.95	1.26
12,575.0	69.38	357.59	12,405.3	-6.5	-787.1	128.3	12.00	11.95	1.20
12,600.0	72.36	357.88	12,413.5	17.1	-788.0	151.7	12.00	11.95	1.15
12,625.0	75.35	358.16	12,420.4	41.0	-788.9	175.5	12.00	11.95	1.12
12,650.0	78.34	358.43	12,426.1	65.4	-789.6	199.6	12.00	11.95	1.09
12,675.0	81.33	358.70	12,430.5	90.0	-790.2	223.9	12.00	11.95	1.06
12,700.0	84.32	358.96	12,433.6	114.8	-790.7	248.4	12.00	11.96	1.05
12,725.0	87.31	359.22	12,435.5	139.7	-791.1	273.0	12.00	11.96	1.04
12,747.5	90.00	359.45	12,436.0	162.2	-791.4	295.3	12.00	11.96	1.03
12,800.0	90.00	359.45	12,436.0	214.7	-791.9	347.1	0.00	0.00	0.00
12,900.0	90.00	359.45	12,436.0	314.7	-792.8	445.7	0.00	0.00	0.00
13,000.0	90.00	359.45	12,436.0	414.7	-793.8	544.4	0.00	0.00	0.00
13,100.0	90.00	359.45	12,436.0	514.7	-794.7	643.1	0.00	0.00	0.00
13,200.0	90.00	359.45	12,436.0	614.7	-795.7	741.8	0.00	0.00	0.00
13,300.0	90.00	359.45	12,436.0	714.7	-796.7	840.5	0.00	0.00	0.00
13,400.0	90.00	359.45	12,436.0	814.7	-797.6	939.2	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #704H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3563.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3563.0usft
Site:	Mamba 30 State	**North Reference:**	Grid
Well:	#704H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.00	359.45	12,436.0	914.7	-798.6	1,037.8	0.00	0.00	0.00
13,600.0	90.00	359.45	12,436.0	1,014.6	-799.5	1,136.5	0.00	0.00	0.00
13,700.0	90.00	359.45	12,436.0	1,114.6	-800.5	1,235.2	0.00	0.00	0.00
13,800.0	90.00	359.45	12,436.0	1,214.6	-801.5	1,333.9	0.00	0.00	0.00
13,900.0	90.00	359.45	12,436.0	1,314.6	-802.4	1,432.6	0.00	0.00	0.00
14,000.0	90.00	359.45	12,436.0	1,414.6	-803.4	1,531.3	0.00	0.00	0.00
14,100.0	90.00	359.45	12,436.0	1,514.6	-804.3	1,630.0	0.00	0.00	0.00
14,200.0	90.00	359.45	12,436.0	1,614.6	-805.3	1,728.6	0.00	0.00	0.00
14,300.0	90.00	359.45	12,436.0	1,714.6	-806.3	1,827.3	0.00	0.00	0.00
14,400.0	90.00	359.45	12,436.0	1,814.6	-807.2	1,926.0	0.00	0.00	0.00
14,500.0	90.00	359.45	12,436.0	1,914.6	-808.2	2,024.7	0.00	0.00	0.00
14,600.0	90.00	359.45	12,436.0	2,014.6	-809.1	2,123.4	0.00	0.00	0.00
14,700.0	90.00	359.45	12,436.0	2,114.6	-810.1	2,222.1	0.00	0.00	0.00
14,800.0	90.00	359.45	12,436.0	2,214.6	-811.1	2,320.7	0.00	0.00	0.00
14,900.0	90.00	359.45	12,436.0	2,314.6	-812.0	2,419.4	0.00	0.00	0.00
15,000.0	90.00	359.45	12,436.0	2,414.6	-813.0	2,518.1	0.00	0.00	0.00
15,100.0	90.00	359.45	12,436.0	2,514.6	-813.9	2,616.8	0.00	0.00	0.00
15,200.0	90.00	359.45	12,436.0	2,614.6	-814.9	2,715.5	0.00	0.00	0.00
15,300.0	90.00	359.45	12,436.0	2,714.6	-815.9	2,814.2	0.00	0.00	0.00
15,400.0	90.00	359.45	12,436.0	2,814.6	-816.8	2,912.8	0.00	0.00	0.00
15,500.0	90.00	359.45	12,436.0	2,914.6	-817.8	3,011.5	0.00	0.00	0.00
15,600.0	90.00	359.45	12,436.0	3,014.6	-818.7	3,110.2	0.00	0.00	0.00
15,700.0	90.00	359.45	12,436.0	3,114.6	-819.7	3,208.9	0.00	0.00	0.00
15,800.0	90.00	359.45	12,436.0	3,214.5	-820.7	3,307.6	0.00	0.00	0.00
15,900.0	90.00	359.45	12,436.0	3,314.5	-821.6	3,406.3	0.00	0.00	0.00
16,000.0	90.00	359.45	12,436.0	3,414.5	-822.6	3,504.9	0.00	0.00	0.00
16,100.0	90.00	359.45	12,436.0	3,514.5	-823.5	3,603.6	0.00	0.00	0.00
16,200.0	90.00	359.45	12,436.0	3,614.5	-824.5	3,702.3	0.00	0.00	0.00
16,300.0	90.00	359.45	12,436.0	3,714.5	-825.5	3,801.0	0.00	0.00	0.00
16,400.0	90.00	359.45	12,436.0	3,814.5	-826.4	3,899.7	0.00	0.00	0.00
16,500.0	90.00	359.45	12,436.0	3,914.5	-827.4	3,998.4	0.00	0.00	0.00
16,600.0	90.00	359.45	12,436.0	4,014.5	-828.3	4,097.1	0.00	0.00	0.00
16,700.0	90.00	359.45	12,436.0	4,114.5	-829.3	4,195.7	0.00	0.00	0.00
16,800.0	90.00	359.45	12,436.0	4,214.5	-830.3	4,294.4	0.00	0.00	0.00
16,900.0	90.00	359.45	12,436.0	4,314.5	-831.2	4,393.1	0.00	0.00	0.00
17,000.0	90.00	359.45	12,436.0	4,414.5	-832.2	4,491.8	0.00	0.00	0.00
17,100.0	90.00	359.45	12,436.0	4,514.5	-833.1	4,590.5	0.00	0.00	0.00
17,200.0	90.00	359.45	12,436.0	4,614.5	-834.1	4,689.2	0.00	0.00	0.00
17,300.0	90.00	359.45	12,436.0	4,714.5	-835.1	4,787.8	0.00	0.00	0.00
17,397.5	90.00	359.45	12,436.0	4,812.0	-836.0	4,884.1	0.00	0.00	0.00
PBHL (Mamba 30 State #704H)									

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #704H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3563.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3563.0usft
Site:	Mamba 30 State	**North Reference:**	Grid
Well:	#704H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Mamba 30 State - plan hits target center - Point	0.00	0.00	12,436.0	4,812.0	-836.0	435,660.00	764,986.00	32° 11' 44.303 N	103° 36' 37.180 W
FTP (Mamba 30 State # - plan misses target center by 165.3usft at 12400.0usft MD (12315.5 TVD, -155.3 N, -777.9 E) - Point	0.00	0.00	12,436.0	-268.0	-787.0	430,580.00	765,035.00	32° 10' 54.032 N	103° 36' 37.007 W

eog resources

Lea County, NM (NAD 83 NME)

Mamba 30 State #704H

Plan #0.2

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.47°

Magnetic Field
Strength: 47800.9snT
Dip Angle: 60.01°
Date: 7/5/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.47°
To convert a Magnetic Direction to a True Direction, Add 6.86° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

WELL DETAILS: #704H

3538.0
KB = 25 @ 3563.0usft

Northing	Easting	Latitude	Longitude
430848.00	765822.00	32° 10' 56.631 N	103° 36' 27.829 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3532.0	5.32	247.09	3531.3	-9.6	-22.7	1.00	247.09	-5.6	
4	11980.7	5.32	247.09	11943.5	-314.5	-744.4	0.00	0.00	-182.5	
5	12747.5	90.00	359.45	12436.0	162.2	-791.4	12.00	112.27	295.3	
6	17397.5	90.00	359.45	12436.0	4812.0	-836.0	0.00	0.00	4884.1	PBHL (Mamba 30 State #704H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Mamba 30 State #704H)	12436.0	4812.0	-834.0	435660.00	764986.00
FTP (Mamba 30 State #704H)	12436.0	-268.0	-787.0	430580.00	765035.00